

COOLED ROLLING ROLL OF DIRECT ROLLING TYPE CONTINUOUS CASTING MACHINE

Patent Number: JP56017169
Publication date: 1981-02-18
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Requested Patent: ☐ JP56017169
Application Number: JP19790093262 19790724
Priority Number(s):
IPC Classification: B22D11/06
EC Classification:
Equivalents: JP1457263C, JP63006308B

Abstract

PURPOSE:To make productivity higher by providing multiple cooling channels axially in the inside surfaces of the cooling walls of a pair of cooled rolling rolls thereby supplying water to the cooling channels through the water feed holes of the roll shafts and cooling the rolls.

CONSTITUTION:In a direct rolling type continuous casting machine, multiple cooling channels 15e are provided in the axial direction of cooled rolling rolls 15, 15' on the inside circumferential surfaces 15b of the tubular high heat conductivity metal mounted on the outside circumferential surfaces of the rolls 15, 15'. Then, the cooling water 16 from a cooling water source flows through the water supply holes 15f, water supply channels 15c, cooling channels 15e and water discharge holes 15d of the roll bodies 15a, thereby sufficiently cooling the cooled rolls 15, 15'. If the water-cooling walls 15b are divided circumferentially, the effect of thermal expansion and thermal stress may be decreased, and if a water supply rotary joint 10 having a distributing part 10' in a rotational sliding part is used, the cooling water 16 may be supplied only to the required portions of the water-cooling wall 15b which rotates.

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